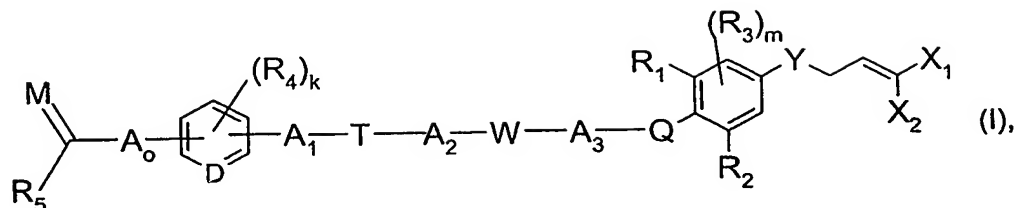


What is claimed is:

1. A compound of formula



wherein

A_0 , A_1 and A_2 are each independently of the others a bond or a C_1 - C_6 alkylene bridge which is unsubstituted or substituted by from one to six identical or different substituents selected from halogen and C_3 - C_8 cycloalkyl;

A_3 is a C_1 - C_6 alkylene bridge which is unsubstituted or substituted by from one to six identical or different substituents selected from halogen and C_3 - C_8 cycloalkyl;

Y is O, NR_{11} , S, SO or SO_2 ;

M is O or NOR_6 ,

X_1 and X_2 are each independently of the other fluorine, chlorine or bromine;

R_1 , R_2 and R_3 are each independently of the others H, halogen, OH, SH, CN, nitro, C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, C_1 - C_6 alkylcarbonyl, C_2 - C_6 alkenyl, C_2 - C_6 haloalkenyl, C_2 - C_6 alkynyl, C_1 - C_6 alkoxy, C_1 - C_6 haloalkoxy, C_2 - C_6 alkenyloxy, C_2 - C_6 haloalkenyloxy, C_2 - C_6 alkynyloxy, $-S(=O)-C_1$ - C_6 alkyl, $-S(=O)_2-C_1$ - C_6 alkyl, C_1 - C_6 alkoxycarbonyl or C_3 - C_6 haloalkynyloxy; the substituents R_3 being independent of one another when m is 2;

Q is O, NR_{11} , S, SO or SO_2 ;

W is O, NR_{11} , S, SO, SO_2 , $-C(=O)-O-$, $-O-C(=O)-$, $-C(=O)-NR_{11}-$ or $-NR_{11}-C(=O)-$;

T is a bond, O, NR_{11} , S, SO, SO_2 , $-C(=O)-O-$, $-O-C(=O)-$, $-C(=O)-NR_{11}-$ or $-NR_{11}-C(=O)-$;

D is CH or N;

R_4 is H, halogen, OH, SH, CN, nitro, C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, C_1 - C_6 alkylcarbonyl, C_2 - C_6 alkenyl, C_2 - C_6 haloalkenyl, C_2 - C_6 alkynyl, C_1 - C_6 alkoxy, C_1 - C_6 haloalkoxy, C_2 - C_6 alkenyloxy, C_2 - C_6 haloalkenyloxy, C_2 - C_6 alkynyloxy, $-S(=O)-C_1$ - C_6 alkyl, $-S(=O)_2-C_1$ - C_6 alkyl, C_1 - C_6 -

- 74 -

alkoxycarbonyl, C₃-C₆haloalkynyloxy, NH₂, NH(C₁-C₆alkyl) or N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another; the substituents R₄ being independent of one another when k is greater than 1;

R₅ is C₁-C₁₂alkyl substituted by from one to five substituents selected from the group consisting of -N₃, NO₂, OH, C₃-C₈cycloalkyl, C₃-C₈cycloalkoxy, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₂-C₆alkenyloxy, C₂-C₆haloalkenyloxy, C₃-C₆alkynyloxy, C₃-C₆haloalkynyl, C₃-C₆haloalkynyloxy, C₃-C₈cycloalkyl-C₁-C₆alkoxy, C₁-C₆alkylcarbonyl, C₁-C₆haloalkylcarbonyl, C₁-C₆alkoxy-C₁-C₆alkoxy, -P(=O)(OC₁-C₆alkyl)₂, -S(O)_q-R₁₃, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another, -N(R₇)₂ wherein the two R₇s are independent of one another and -NR₁₄S(O)_qR₁₅;

C₃-C₈cycloalkyl substituted by from one to five identical or different substituents selected from the group consisting of C₁-C₆alkyl, halogen, CN, NO₂, OH, C₁-C₆alkoxy, C₁-C₆haloalkoxy, NH₂, NH(C₁-C₆alkyl) and N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another;

-N(R₇)₂ wherein the two R₇s are independent of one another;

-C(=O)-O-R₈; -C(=O)-R₉; -C(=O)-NH-R₉; -C(=N-O-R₉)R₁₀; -C(=N-NH-R₉)R₁₀;

C₂-C₆alkenyl; C₂-C₆alkynyl; heterocyclyl; or

-NR₁₄S(O)_qR₁₅

wherein the alkenyl and alkynyl radicals are unsubstituted or, depending upon the possibilities of substitution, substituted by from one to five identical or different substituents selected from the group consisting of halogen, -N₃, CN, NO₂, OH, C₃-C₈cycloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₂-C₆alkenyloxy, C₂-C₆haloalkenyloxy, C₃-C₆alkynyloxy, C₃-C₆haloalkynyloxy, C₃-C₈cycloalkyl-C₁-C₆alkoxy, C₁-C₆alkylcarbonyl, C₁-C₆haloalkylcarbonyl, C₁-C₆alkoxycarbonyl, C₁-C₆alkylcarbonyl-C₁-C₆alkyl, C₁-C₆alkoxycarbonyl-C₁-C₆alkyl, C₃-C₆haloalkynyl, C₁-C₆alkoxy-C₁-C₆alkyl, C₁-C₆haloalkoxy-C₁-C₆alkyl, C₂-C₆alkenyloxy-C₁-C₆alkyl, C₂-C₆haloalkenyloxy-C₁-C₆alkyl, C₃-C₆alkynyloxy-C₁-C₆alkyl, -P(=O)(OC₁-C₆alkyl)₂, -S(O)_q-R₁₃, NH₂, NH(C₁-C₆alkyl) and N(C₁-C₆alkyl)₂, wherein the two alkyl groups are independent of one another;

and wherein the heterocyclyl radical mentioned under R₅ are unsubstituted or, depending upon the possibilities of substitution, substituted by from one to five substituents selected from halogen, CN, NO₂, OH, SH, C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₃-C₆alkynyl, C₃-C₈cycloalkyl, C₃-C₈cycloalkyl-C₁-C₆alkyl, C₁-C₆alkoxy,

- 75 -

C₁-C₆haloalkoxy, C₂-C₆alkenyloxy, C₂-C₆haloalkenyloxy, C₃-C₆alkynyloxy, C₃-C₆haloalkynyl-oxy, C₃-C₈cycloalkyl-C₁-C₆alkoxy, C₁-C₆alkylcarbonyl, C₁-C₆haloalkylcarbonyl, C₁-C₆alkoxy-carbonyl, C₁-C₆alkylcarbonyl-C₁-C₆alkyl, C₁-C₆alkoxycarbonyl-C₁-C₆alkyl, C₁-C₆alkylthio, C₂-C₆alkenylthio, C₃-C₆alkynylthio, C₃-C₆cycloalkyl-C₁-C₆alkylthio, C₃-C₆haloalkynyl, C₂-C₆haloalkenylthio, C₁-C₆haloalkylthio, C₁-C₆alkoxy-C₁-C₆alkyl, C₁-C₆haloalkoxy-C₁-C₆alkyl, C₂-C₆alkenyloxy-C₁-C₆alkyl, C₂-C₆haloalkenyloxy-C₁-C₆alkyl, C₃-C₆alkynyloxy-C₁-C₆alkyl, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another, C₁-C₆alkylcarbonylamino, C₁-C₆haloalkylcarbonylamino, C₁-C₆alkoxycarbonylamino and C₁-C₆alkylaminocarbonylamino;

or, when A₀ is a C₁-C₆alkylene bridge, R₅ is C₂-C₆alkylene bonded to one of the carbon atoms of A₀;

or, when R₄ and a group -C(=NOR₆)R₅ are in the ortho-position relative to one another, R₄ and R₅ together form a C₂-C₆alkylene bridge wherein one or two CH₂ groups each independently of the other may be replaced by O, NR₁₂, S or SO, and wherein the CH₂ groups are unsubstituted or mono- or di-substituted by halogen, OH, SH, CN, nitro, C₁-C₆alkyl, C₁-C₆haloalkyl, C₁-C₆alkoxy or C₁-C₆haloalkoxy;

R₆ is H, C₁-C₁₂alkyl, C₃-C₈cycloalkyl, C₁-C₆alkylcarbonyl, C₂-C₆alkenyl, C₂-C₆alkynyl, aryl, heterocyclyl or benzyl, wherein the alkyl, cycloalkyl, alkenyl and alkynyl radicals are unsubstituted or, depending upon the possibilities of substitution, substituted by from one to five identical or different substituents selected from the group consisting of halogen, -N₃, CN, NO₂, OH, SH, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₂-C₆alkenyloxy, C₂-C₆haloalkenyloxy, C₃-C₆alkynyloxy, C₃-C₆haloalkynyloxy, C₃-C₈cycloalkyl-C₁-C₆alkoxy, C₁-C₆alkylcarbonyl, C₁-C₆haloalkylcarbonyl, C₁-C₆alkoxycarbonyl, C₁-C₆alkylcarbonyl-C₁-C₆alkyl, C₁-C₆alkoxy-carbonyl-C₁-C₆alkyl, C₁-C₆alkylthio, C₂-C₆alkenylthio, C₃-C₆alkynylthio, C₃-C₆cycloalkyl-C₁-C₆alkylthio, C₃-C₆haloalkynyl, C₂-C₆haloalkenylthio, C₁-C₆haloalkylthio, C₁-C₆alkoxy-C₁-C₆alkyl, C₁-C₆haloalkoxy-C₁-C₆alkyl, C₂-C₆alkenyloxy-C₁-C₆alkyl, C₂-C₆haloalkenyloxy-C₁-C₆alkyl, C₃-C₆alkynyloxy-C₁-C₆alkyl, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another, C₁-C₆alkylcarbonylamino, C₁-C₆haloalkylcarbonylamino, C₁-C₆alkoxycarbonylamino and C₁-C₆alkylaminocarbonylamino;

and the aryl, heterocyclyl and benzyl radicals are unsubstituted or, depending upon the possibilities of substitution, substituted by from one to five identical or different substituents selected from the group consisting of halogen, CN, NO₂, OH, SH, C₁-C₆alkyl, C₁-C₆haloalkyl,

- 76 -

C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₃-C₆alkynyl, C₃-C₈cycloalkyl, C₃-C₈cycloalkyl-C₁-C₆alkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₂-C₆alkenyloxy, C₂-C₆haloalkenyloxy, C₃-C₆alkynyloxy, C₃-C₆haloalkynyloxy, C₃-C₈cycloalkyl-C₁-C₆alkoxy, C₁-C₆alkylcarbonyl, C₁-C₆haloalkylcarbonyl, C₁-C₆alkoxycarbonyl, C₁-C₆alkylcarbonyl-C₁-C₆alkyl, C₁-C₆alkoxycarbonyl-C₁-C₆alkyl, C₁-C₆alkylthio, C₂-C₆alkenylthio, C₃-C₆alkynylthio, C₃-C₈cycloalkyl-C₁-C₆alkylthio, C₃-C₆haloalkynyl, C₂-C₆haloalkenylthio, C₁-C₆haloalkylthio, C₁-C₆alkoxy-C₁-C₆alkyl, C₁-C₆haloalkoxy-C₁-C₆alkyl, C₂-C₆alkenyloxy-C₁-C₆alkyl, C₂-C₆haloalkenyloxy-C₁-C₆alkyl, C₃-C₆alkynyloxy-C₁-C₆alkyl, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another, C₁-C₆alkylcarbonylamino, C₁-C₆haloalkylcarbonylamino, C₁-C₆alkoxycarbonylamino and C₁-C₆alkylaminocarbonylamino;

R₇ is H, C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₆alkylcarbonyl, C₁-C₃haloalkylcarbonyl, C₁-C₆alkoxycarbonyl, C₃-C₈cycloalkyl, C₃-C₈cycloalkylcarbonyl or formyl;

R₈ is H, C₁-C₁₂alkyl substituted by from one to five identical or different substituents selected from halogen, -N₃, CN, NO₂, OH, C₁-C₆alkoxy, C₁-C₆alkylthio, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another and C₁-C₆alkylcarbonylamino; C₃-C₈cycloalkyl, C₁-C₆alkylcarbonyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₂-C₆alkynyl, C₂-C₆haloalkynyl, aryl, heterocyclyl or benzyl, wherein the aryl, heterocyclyl and benzyl radicals are unsubstituted or, depending upon the possibilities of substitution, substituted by from one to five substituents selected from the group consisting of halogen, CN, NO₂, OH, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₃-C₆alkynyl, C₃-C₈cycloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₂-C₆alkenyloxy, C₂-C₆haloalkenyloxy, C₃-C₆alkynyloxy, C₃-C₆haloalkynyloxy, C₁-C₆alkylcarbonyl, C₁-C₆haloalkylcarbonyl, C₁-C₆alkoxycarbonyl, C₁-C₆alkylthio, C₂-C₆alkenylthio, C₃-C₆alkynylthio, C₁-C₆alkylthio, C₃-C₆haloalkynyl, C₁-C₆haloalkylthio, C₁-C₆alkoxy-C₁-C₆alkyl, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂, C₁-C₆alkylcarbonylamino, C₁-C₆haloalkylcarbonylamino, C₁-C₆alkoxycarbonylamino and C₁-C₆alkylaminocarbonylamino;

R₉ is H, C₁-C₁₂alkyl unsubstituted or substituted by from one to five identical or different substituents selected from halogen, CN, NO₂, OH, C₁-C₆alkoxy, C₁-C₆alkylthio, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another and C₁-C₆alkylcarbonylamino; C₃-C₈cycloalkyl, C₁-C₆alkylcarbonyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₂-C₆alkynyl, C₂-C₆haloalkynyl, aryl, heterocyclyl or benzyl, wherein the aryl, heterocyclyl and benzyl radicals are unsubstituted or, depending upon the possibilities of substitution, substituted by from one to five substituents selected from the group consisting

- 77 -

of halogen, CN, NO₂, OH, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₃-C₆alkynyl, C₃-C₈cycloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₂-C₆alkenyloxy, C₂-C₆haloalkenyloxy, C₃-C₆alkynyloxy, C₃-C₆haloalkynyloxy, C₁-C₆alkylcarbonyl, C₁-C₆haloalkylcarbonyl, C₁-C₆alkoxycarbonyl, C₁-C₆alkylthio, C₂-C₆alkenylthio, C₃-C₆alkynylthio, C₁-C₆alkylthio, C₃-C₆haloalkynyl, C₁-C₆haloalkylthio, C₁-C₆alkoxy-C₁-C₆alkyl, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another, C₁-C₆alkylcarbonylamino, C₁-C₆haloalkylcarbonylamino, C₁-C₆alkoxycarbonylamino and C₁-C₆alkylaminocarbonylamino;

R₁₀ is H, C₁-C₁₂alkyl unsubstituted or substituted by from one to five identical or different substituents selected from halogen, CN, NO₂, OH, C₁-C₆alkoxy, C₁-C₆alkylthio, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂ and C₁-C₆alkylcarbonylamino; C₃-C₈cycloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₂-C₆alkynyl, aryl, heterocyclyl or benzyl, wherein the aryl, heterocyclyl and benzyl radicals are unsubstituted or, depending upon the possibilities of substitution, substituted by from one to five identical or different substituents selected from the group consisting of halogen, CN, NO₂, OH, SH, C₁-C₆alkyl, C₁-C₆haloalkyl, C₃-C₈cycloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₆alkylcarbonyl, C₁-C₆haloalkylcarbonyl, C₁-C₆alkoxycarbonyl, C₁-C₆alkylcarbonyl-C₁-C₆alkyl, C₁-C₆alkoxy-C₁-C₆alkyl, NH₂, NH(C₁-C₆alkyl), N(C₁-C₆alkyl)₂ wherein the two alkyl groups are independent of one another, C₁-C₆alkylcarbonylamino, C₁-C₆haloalkylcarbonylamino, C₁-C₆alkoxycarbonylamino and C₁-C₆alkylaminocarbonylamino;

R₁₁ and R₁₂ are each independently of the other H, C₁-C₆alkyl, C₁-C₃haloalkyl, C₁-C₆alkylcarbonyl, C₁-C₃haloalkylcarbonyl, C₁-C₆alkoxycarbonyl, C₃-C₈cycloalkyl, C₃-C₈cycloalkyl-C₁-C₆alkyl or C₃-C₈cycloalkylcarbonyl;

R₁₃ is H, C₁-C₆alkyl, C₂-C₆alkenyl, C₃-C₆alkynyl or C₁-C₆haloalkyl;

R₁₄ is H, C₁-C₆alkyl, C₂-C₆alkenyl, C₃-C₆alkynyl or C₁-C₆haloalkyl;

R₁₅ is H, C₁-C₆alkyl, C₂-C₆alkenyl, C₃-C₆alkynyl or C₁-C₆haloalkyl;

k is 0, 1, 2, 3 or 4;

m is 1 or 2; and

q is 0, 1 or 2;

or, where applicable, a possible E/Z isomer, E/Z isomeric mixture and/or tautomer thereof, in each case in free form or in salt form.

- 78 -

2. The compound according to claim 1 wherein M is NOR_8 .
3. The compound according to claim 1 wherein M is O.
4. The compound according to any one of claims 1 to 3 in free form.
5. A compound according to any one of claims 1 to 4 wherein X_1 and X_2 are chlorine or bromine.
6. A compound according to any one of claims 1 to 5 wherein D is CH.
7. A compound according to any one of claims 1 to 6 wherein A_3 is straight-chain alkylene bridge.
8. A compound according to any one of claims 1 to 7 wherein R_5 is C_1 - C_{12} alkoxy- C_1 - C_{12} alkyl.
9. A compound according to any one of claims 1 to 7 wherein R_5 is heterocyclyl.
10. A pesticidal composition which comprises as active ingredient at least one compound defined in any one of claims 1 to 9, in free form or in agrochemically acceptable salt form, and at least one adjuvant.
11. A method of controlling pests which comprises applying a pesticidal composition as defined in claim 10 to the pests or to the locus thereof.